BreezeMAX™ FDD

Traps and Alarms

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P/N 214694

Document History

Topic	Description	Date Issued
General	The Traps and Alarms (formerly an Appendix to the system manual) has been separated from the manual.	SW Version 2.0, February 2006
Additional Trap Sources Section 2	Addedd Sources: ■ AVU-FAN# (applicable for rbShelfPeripheralEquipmentFaultOn/Off Traps) ■ Sources for the rbConfigurationChanged Trap	SW Version 2.5, June 2006
rbConfigurationChanged Trap Section 5.3.1.	Additional Sources added. Updated Additional Info options to support types of configuration changes: add, delete or modify.	SW Version 2.5, June 2006
New NPU/Micro Base Station related traps (License) Section 5.3.3, Section 5.3.4, Section 5.3.5	New traps: ■ rbMbstLicense ■ rbMbstCPEQuantityExceed ■ rbLicenseFileLoadStatus	SW Version 2.5, June 2006
New ODU related trap Section 5.4.5.	New trap: rbOduPowerMissmatch.	SW Version 2.5, June 2006
New SU related trap Section 5.5.4.	New trap: rbSuLicense	SW Version 2.5, June 2006
ODU CRC Error traps removed	rbOduCrcErrorOn and rbOduCrcErrorOff traps are obsolete from SW Version 2.6	SW Version 2.6 October 2006
General Traps Section 5.1.7	New trap: rbModeConflictOn Trap	SW Version 3.0 April 2007
Changed trap severity Section 5.4.3	Severity of rbOduBandMissmatchOn trap has been changed to Major.	SW Version 3.0 April 2007
Service Related traps Section 5.7	Source of Service Related traps (rbServiceDown, rbServiceUp, rbServiceChanged and rbServiceGeneralError) has been changed to NPU/µBST	SW Version 3.0 April 2007
New Alarms Section 6.6, Section 6.7	New Alarms: auOduComError (28) and auOduBandMismatch (29).	SW Version 3.0 April 2007

Topic	Description	Date Issued
Alarms Section 6	Order of Alarms has been changed according to Alarm ID.	SW Version 3.0 April 2007

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1 Traps and Alarms Structure

A BreezeMAX trap/alarm includes the following variables:

Table 1: Trap/Alarm Variables

Trap Variable	Alarm Variable	Description
rbTrapSeqNumber	NA	Trap Sequential Number: A sequential number for the trap/alarm.
rbTrapSource	src	Trap/Alarm Source: The device that is associated with the trap/alarm. For more information refer to Section ý2.
rbTrapSeverity	sev	Trap/Alarm Severity: The severity of the trap/alarm. For more details refer to Section ý3.
rbTrapCategory	cat	Trap/Alarm Category: The category of the trap/alarm. For more details refer to Section ý4.
rbTrapAdditionalInfo	<Reason String>	Trap/Alarm Additional Info: Optional information on the reason for the trap/alarm, if applicable.

2 Traps and Alarms Sources

The trap/alarm source indicates the device that originated the trap/alarm. Each trap/alarm message should include the full hierarchy of its source.

Possible sources and associated information are:

- NPU: Slot # (5, 6 is not used currently).
- AU: Slot #. (1-4, 7-9)
- SU: AU slot #, SU's MAC address.
- Base Station/Micro Base Station
- PSU: PSU # (1-4).
- PIU: PIU # (1-2).
- AVU (ACU): ACU# (1).
- AVU FAN (ACU-FAN): Slot # (1-10).

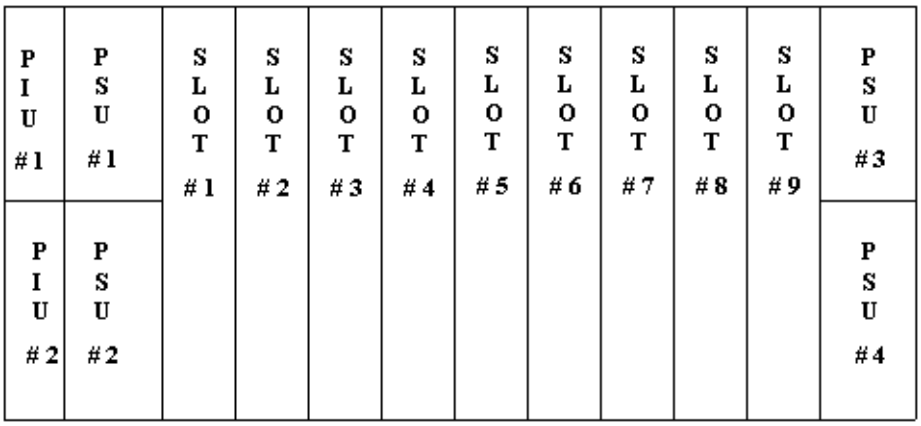

Figure 1: Base Station's Chassis Slots Assignment

- Service: Identified through binding parameters rather than the source. The binding parameters used to identify a Service are: Service Index, Service Name, Subscriber Index, and Subscriber ID.
- The following are used as Sources only for the rbConfigurationChanged TRAP:

- Radio Cluster (RC): RadioClusterId#.
- ODU: OduConfigId#.
- Channel (CHNL): AuSlot# ,ChannelId#.
- Subscriber (SBSCR): SubscriberIdx#.
- Service (SRVC): PipeIdx#>,
- Priority Classifier (POLICY): RuleIdx#>.
- QoS Profile (QOS): ProfileIdx#.
- Forwarding Rule (FRWRD): RuleIdx#.
- Service Profile (TMPL): ProfileIdx#.
- Layer 2 Filtering Rule (FLTR2): RuleIdx#.
- Layer 3/4 Filtering Rule (FLTR3): RuleIdx#.
- Interface Filter (FLTRIFC): FilteringIdx#.
- Filtering Rule (FLTR): RuleIdx#.
- Deny List (DENY): SU's MAC Address.

3 Traps and Alarms Severities

The trap/alarm severity level indicates how the capability of the managed object has been affected. It represents the severity of the alarm, as perceived by the managed object.

The default severity levels defined in the system, ordered from most severe to least severe, are:

Table 2: Trap/Alarm Severities

Severity	Description
Critical	Indicates that a service affecting condition has occurred and an immediate corrective action is required (e.g. when a managed object becomes completely out of service and its capability must be restored).
Major	Indicates that a service affecting condition has developed and an urgent corrective action is required (e.g. when there is severe degradation in the capability of the managed object and its full capability must be restored).
Minor	Indicates the existence of a non-service affecting fault condition and that a corrective action should be taken in order to prevent a more serious (for example, service affecting) fault.
Warning	Indicates the detection of a potential or impending service-affecting fault, before any significant effects have been felt. Action should be taken to further diagnose (if necessary) and correct the problem in order to prevent it from becoming a more serious service-affecting fault.
Info	Indicates a non service-affecting event, which doesn't require any further actions.

The severity of the alarm affects also the following:

- **Unit Fault Status**: The summarized severity of the unit's fault status. It reflects the severity of the alarm with the highest severity that is ON at a specific time. For a Base Station, this is the summarized severities of the NPU, AUs, PIUs, PSUs and AVU.

- **System Fault Status**: The summarized severity of the entire system fault status.

4 Trap/Alarm Categories

The type of trap/alarm categorizes it into one of the following five basic categories (as stated in ITU - CCITT Rec. X.733):

Table 3: Trap/Alarm Categories

Category	Denoting String	Description
Communications	COMM	Associated with the procedures and/or processes required to convey information from one point to another.
Quality of service	QoS	Associated with degradation in the quality of a service.
Processing Error	PROC	Associated with software or processing fault.
Equipment	EQUP	Associated with an equipment fault.
Environmental	ENVR	Associated with a condition relating to an enclosure in which the equipment resides.

5 BreezeMAX Traps

BreezeMAX traps include the following trap groups:

- "General Traps" on page 6
- "Chassis/Micro Base Station Related Traps" on page 11
- "NPU/Micro Base Station Related Traps" on page 15
- "ODU Related Traps" on page 19
- "SU Related Traps" on page 21
- "Software Download and BER Test Related Traps" on page 24
- "Service Related Traps" on page 29
- "MIB II Traps" on page 32

5.1 General Traps

5.1.1 rbResetOn Trap

Table 4: rbResetOn Trap Variables

Variable	Description
Trap ID	1
Description	The device/card is about to perform reset.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	Equipment
Additional Info	1, 2 (see details in the following table)

Table 5: rbResetOn Trap Additional Info

No.	Description
1	External Reset
2	Internal Fault Reset

5.1.2 rbDiagnosticsHwFaultOn Trap

Table 6: rbDiagnosticsHwFaultOn Trap Variables

Variable	Description
Trap ID	2
Description	The device/card has detected a hardware fault.
Trap Source	μBST/NPU/AU/SU
Trap Severity	Major
Trap Category	Equipment
Additional Info	3...8, 23...27 (see details in the following table)

Table 7: rbDiagnosticsHwFaultOn/Off Trap Additional Info

No.	Description
3	SU HW fault. Manta's (ASIC) PLL is not locked for more than 5 msec.
4	SU HW fault. Manta's (ASIC) PLL is not locked in steady state.
5	SU HW fault. Host failed to download Manta's firmware (complete with CRC errors, or handshake error).
6	SU HW fault. Radio's PLL is not locked after power up sequence.
7	SU HW fault. Radio's PLL is not locked in steady state.
8	SU, AU, NPU or µBST HW fault. A Built In Test (BIT) has failed.
23	µBST/AU HW fault. Output Tx Power exceeds PMAX+5dB for more than 5 minutes.
24	µBST/AU HW fault. When a process to burn IDU table fails (CRC check on finish fails, FTP session failed, no place in FFS).
25	µBST/AU HW fault. IF synthesizer failed to lock on the frequency set on the synthesizer.
26	µBST/AU HW fault. µBST/AU detected an error while downloading the ODU table. The string includes also the byte number of the ODU table where the error was detected.
27	µBST/AU HW fault. Connection between µBST/AU and ODU has been lost.

5.1.3 rbDiagnosticsHwFaultOff Trap

Table 8: rbDiagnosticsHwFaultOff Trap Variables

Variable	Description
Trap ID	3
Description	A previously detected hardware fault has been fixed.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Equipment
Trap Category	Info
Additional Info	3...8, 23...27. For details see Additional Info in rbDiagnosticsHwFaultOn/Off Trap Additional Info table above.

5.1.4 rbMonitorAccessOn Trap

Table 9: rbMonitorAccessOn Trap Variables

Variable	Description
Trap ID	4
Description	The device is accessed via LCI (Monitor port) or Telnet.
Trap Source	µBST/NPU/SU
Trap Severity	Info
Trap Category	Equipment
Additional Info	140, 141. For details see the following table. In addition, the IP Address of the station accessing the device is sent as a binding parameter (rbTrapIpAddress).

Table 10: RbMonitorAccessOn/Off Trap Additional Info

No.	Description
140	LCI (Monitor port) access has been detected.
141	Telnet access has been detected.

5.1.5 rbMonitorAccessOff Trap

Table 11: rbMonitorAccessOff Trap Variables

Variable	Description
Trap ID	5
Description	LCI (Monitor port) or Telnet access to the device has been terminated.
Trap Source	µBST/NPU/SU
Trap Severity	Info
Trap Category	Equipment
Additional Info	140, 141. For details see rbMonitorAccessOn/Off Trap Additional Info table above. In addition, the IP Address of the station accessing the device is sent as a binding parameter (rbTrapIpAddress).

5.1.6 rbAuNetworkEntryStatus Trap

Table 12: rbAuNetworkEntryStatus Trap Variables

Variable	Description
Trap ID	6
Description	µBST/AU Network Entry status has been changed
Trap Source	µBST/AU
Trap Severity	Info
Trap Category	Communication
Additional Info	135...139

Table 13: rbAuNetworkEntryStatus Trap Additional Info

No.	Description
135	µBST/AU DHCP process failed
136	µBST/AU configuration download failed
137	µBST/AU set parameters failed
138	µBST/AU firmware download failed
139	µBST/AU is in service

5.1.7 rbModeConflictOn Trap

Table 14: rbModeConflictOn Trap Variables

Variable	Description
Trap ID	7
Description	Conflict between configuration and unit's capabilities has been detected.
Trap Source	AU/SU
Trap Severity	Major
Trap Category	Communication
Additional Info	144: Diversity Mode Mismatch: the AU does not support the configured diversity mode.

5.2 Chassis/Micro Base Station Related Traps

NOTE

In µBST, Slot# will always be 1, and PSU# will always be 1.

5.2.1 rbShelfCardExtractionOn Trap

Table 15: rbShelfCardExtractionOn Trap Variables

Variable	Description
Trap ID	21
Description	The card is being extracted from the chassis.
Trap Source	NPU/AU/PIU/PSU/AVU
Trap Severity	Info
Trap Category	Equipment

5.2.2 rbShelfCardInsertionOn Trap

Table 16: rbShelfCardInsertionOn Trap Variables

Variable	Description
Trap ID	22
Description	The card is being inserted into the chassis.
Trap Source	NPU/AU/PIU/AU/AVU
Trap Severity	Info
Trap Category	Equipment

5.2.3 rbShelfPeripheralEquipmentFaultOn Trap

Table 17: rbShelfPeripheralEquipmentFaultOn Trap Variables

Variable	Description
Trap ID	23
Description	A fault has been detected in a peripheral unit or a μBST component.
Trap Source	μBST/PIU/PSU/AVU/AVU-FAN
Trap Severity	Minor
Trap Category	Equipment
Additional Info	53...55

Table 18: rbShelfPeripheralEquipmentFaultOn Trap Additional Info

No.	Description
53	A fault has been detected in a PSU, or μBST has detected a power supply failure.
54	A fault has been detected in a PIU (not applicable to μBST).
55	A fault has been detected in the AVU, or the μBST has detected a problem in at least one of its fans.

5.2.4 rbShelfPeripheralEquipmentFaultOff Trap

Table 19: rbShelfPeripheralEquipmentFaultOff Trap

Variable	Description
Trap ID	24
Description	A fault in a peripheral unit has been corrected.
Trap Source	μBST/PIU/PSU/AVU/AVU-FAN
Trap Severity	Info
Trap Category	Equipment
Additional Info	53...55. See details in the following table.

Table 20: rbShelfPeripheralEquipmentFaultOff Trap Additional Info

No.	Description
53	NPU/µBST has detected that the faulty PSU/power supply has become fully operational.
54	NPU has detected that the faulty PIU has become fully operational.
55	NPU/µBST has detected that the faulty AVU/fan has become fully operational

5.2.5 rbShelfEnvParamFaultOn Trap

Table 21: rbShelfEnvParamFaultOn Trap Variables

Variable	Description
Trap ID	25
Description	A fault has been detected in a chassis environmental parameter.
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	Equipment
Additional Info	73...76. For details see the following table.

Table 22: rbShelfEnvParamFaultOn/Off Trap Additional Info

No.	Description
73	A fault has been detected in the dry contacts of NPU/µBST.
74	An NPU/µBST temperature fault has been detected.
75	An AU-IDU temperature fault has been detected.
73	An AU-ODU temperature fault has been detected.

5.2.6 rbShelfEnvParamFaultOff Trap

Table 23: rbShelfEnvParamFaultOff Trap

Variable	Description
Trap ID	26
Description	A previously detected fault in a chassis environmental parameter has been fixed.
Trap Source	μBST/NPU
Trap Severity	Info
Trap Category	Equipment
Additional Info	73...76. For details see rbShelfEnvParamFaultOn/Off Trap Additional Info table above.

5.3 NPU/Micro Base Station Related Traps

5.3.1 rbConfigurationChanged Trap

Table 24: rbConfigurationChanged Trap Variables

Variable	Description
Trap ID	41
Description	A configuration change has been detected.
Trap Source	µBST/NPU/AU/SU/PSU/PIU/AVU/AVU-FAN/Radio Cluster/ODU/Channel/ Subscriber/Service/Priority Classifier/(Policy Rule)/QoS Profile/ Forwarding Rule/Service Profile (Template)/Layer 2 Filtering Rule, Layer 3/4 Filtering Rule/Interface Filtering/ Filtering Rule/MAC Address Deny List
Trap Severity	Info
Trap Category	Equipment
Additional Info	30...33. For details see the following table.

Table 25: rbConfigurationChanged Trap Additional Info

No.	Description
30	Configuration changed - element added event.
31	Configuration changed - element deleted event.
32	Configuration changed - element modified event.
33	A Management Port parameter has been changed.

5.3.2 rbParameterSetFailure Trap

Table 26: rbParameterSetFailure Trap Variables

Variable	Description
Trap ID	42
Description	An error in configuration change has been detected.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	Equipment
Additional Info	Provided in Table 27 below.

Table 27: rbTrapSetFailureReason

No.	Description
1	General Error
2	Failed to update parameters CRC
3	Set defaults to unknown type (internal error)
4	Failed to set defaults (internal error)
5	Log prefix is too long
6	Failed to set Log Prefix (internal error)
7	Cell Radius is invalid
8	Failed to set Cell Radius
9	Failed to set Base Station ID (internal error)
10	Failed to set Base Station Mask (internal error)
11	Failed to set ARQ mode (internal error)
12	Failed to set Band (internal error)
13	Tx Frequency is out of calculated limited range
14	Tx frequency is invalid
15	Tx frequency is out of maximum permitted range
16	Tx Frequency set failed (internal error)
17	Tx Power value is invalid
18	Set Tx Power Failed (internal error)
19	UL Basic rate is invalid
20	Failed to set Uplink Basic Rate (internal error)
21	DL Basic rate is invalid
22	Failed to set Downlink Basic Rate (internal error)
23	It is forbidden to set SU rate while Multirate is enabled
24	Invalid Downlink rate
25	Invalid Uplink rate
26	Invalid Optimal RSSI
27	Set Optimal RSSI failed (internal error)
28	BER Test data size is less than minimum allowed
29	BER Test data size is higher than the maximum allowed
30	BER Test is already running
31	Invalid BER Test Rate

Table 27: rbTrapSetFailureReason

No.	Description
32	Invalid BER Test Priority
33	Failed to set Test Priority for BER Test (internal error)
34	Invalid BER Test packet size
35	Failed to set BER Test packet size (internal error)
36	Failed to create connection for the BER test
37	Failed to disconnect Telnet session
38	Invalid Ethernet Port configuration mode
39	Set Ethernet Port mode failed (internal error)
40	SU Installer password is too long
41	Set SU Installer password failed (internal error)
42	Invalid Band
43	Invalid Aging Time or internal error
44	Invalid Limit of Supported devices or internal error
45	Failed to set Limit mode - invalid value or internal error

5.3.3 rbMbstLicense Trap

Table 28: rbMbstLicense Trap Variables

Variable	Description
Trap ID	50
Description	License Grace Period warning.
Trap Source	μBST
Trap Severity	Info
Trap Category	PROC
Additional Info	184, 185. For details see the following table.

Table 29: rbMbstLicense Trap Additional Info

No.	Description
184	Grace Period started
185	Grace Period expired

5.3.4 rbMbstCPEQuantityExceed Trap

Table 30: rbMbstCPEQuantityExceed Trap Variables

Variable	Description
Trap ID	51
Description	Allowed quantity of CPEs has been exceeded.
Trap Source	µBST
Trap Severity	Info
Trap Category	PROC
Additional Info	The MAC Address of rejected SU (rbSuMacAddr) is sent as a binding parameter.

5.3.5 rbLicenseFileLoadStatus Trap

Table 31: rbLicenseFileLoadStatus Trap Variables

Variable	Description
Trap ID	52
Description	License file loading process status.
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	PROC
Additional Info	187...191. For details see the following table.

Table 32: rbLicenseFileLoadStatus Trap Additional Info

No.	Description
187	License file loaded to wrong device (MAC address conflict).
188	Wrong signature of license file.
189	License file syntax error.
190	Wrong number of CPEs in Micro Base station Number of Supported CPEs license file.
191	License file already exists in database.

5.4 ODU Related Traps

The ODU related traps are generated by the AU/µBST. The ODU related traps include the rbChannelId as a binding parameter, identifying the number of the Channel associated with the ODU.

5.4.1 rbOduCommErrorOn Trap

Table 33: rbOduCommErrorOn Trap Variables

Variable	Description
Trap ID	63
Description	An error has been detected in the communication with the ODU associated with the specified Channel ID.
Trap Source	µBST/AU
Trap Severity	Minor
Trap Category	Communication

5.4.2 rbOduCommErrorOff Trap

Table 34: rbOduCommErrorOff Trap Variables

Variable	Description
Trap ID	64
Description	A previously detected error in the communication with the ODU associated with the specified Channel ID has been fixed.
Trap Source	µBST/AU
Trap Severity	Info
Trap Category	Communication

5.4.3 rbOduBandMissmatchOn Trap

Table 35: rbOduBandMissmatchOn Trap Variables

Variable	Description
Trap ID	65
Description	A mismatch was detected between the Configured Frequency Band and actual band supported by the HW of the ODU associated with the specified Channel ID.
Trap Source	µBST/AU
Trap Severity	Major
Trap Category	Communication

5.4.4 rbOduBandMissmatchOff Trap

Table 36: rbOduBandMissmatchOff Trap Variables

Variable	Description
Trap ID	66
Description	A previously detected mismatch between the Configured Frequency Band and actual band supported by the HW of the ODU associated with the specified Channel ID was fixed.
Trap Source	µBST/AU
Trap Severity	Info
Trap Category	Communication

5.4.5 rbOduPowerMissmatch Trap

Table 37: rbOduPowerMissmatch Trap Variables

Variable	Description
Trap ID	67
Description	Configured Tx Power of the ODU associated with the specified Channel ID is higher than the actual Maximum Tx Power of the ODU.
Trap Source	µBST/AU
Trap Severity	Info
Trap Category	Communication

5.5 SU Related Traps

5.5.1 rbSuMaxTxPowerReached Trap

Table 38: rbSuMaxTxPowerReached Trap Variables

Variable	Description
Trap ID	81
Description	The SU has reached the maximum allowed output power.
Trap Source	SU
Trap Severity	Info
Trap Category	PROC
Additional Info	The Tx Power (rbSuTxPower) is sent as a binding parameter

5.5.2 rbSuMinTxPowerReached Trap

Table 39: rbSuMinTxPowerReached Trap Variables

Variable	Description
Trap ID	82
Description	The SU has reached the minimum allowed output power.
Trap Source	SU
Trap Severity	Info
Trap Category	PROC
Additional Info	The Tx Power (rbSuTxPower) is sent as a binding parameter

5.5.3 rbSuNetworkEntryStatus Trap

Table 40: rbSuNetworkEntryStatus Trap Variables

Variable	Description
Trap ID	83
Description	SU's network entry status has been changed.
Trap Source	SU
Trap Severity	Info
Trap Category	PROC
Additional Info	132...134. For details see the following table.

Table 41: rbSuNetworkEntryStatus Trap Additional Info

No.	Description
132	Authentication process failed
133	Registration process failed
134	Registration process completed successfully

5.5.4 rbSuLicense Trap

Table 42: rrbSuLicense Trap Variables

Variable	Description
Trap ID	84
Description	License Grace Period warning.
Trap Source	SU
Trap Severity	Info
Trap Category	PROC
Additional Info	182...186. For details see the following table. In addition, rbLicenseId (Type of License) is sent as a binding parameter. The currently supported value for rbLicenseId is bandwidth (1).

Table 43: rbSuLicense Trap Additional Info

No.	Description
182	Temporary Grace Period started.
183	Temporary Grace Period expired.

Table 43: rbSuLicense Trap Additional Info

No.	Description
184	Grace Period started.
185	Grace Period expired.
186	Grace Period will expire in 3 days.

5.5.5 rbSuDuplicateName Trap

Table 44: 5.5.4rbSuDuplicateName Trap Variables

Variable	Description
Trap ID	85
Description	The SU Name is already in use by another SU. Services to the SU will be denied until another, unique name is configured for the SU. The SU's name in the database is changed temporarily to SU@<MAC Address> until a new name is configured.The binding parameters include the MAC Address of the other SU with the same name, the duplicate name and the new temporary name.
Trap Source	SU
Trap Severity	Major
Trap Category	PROC

5.6 Software Download and BER Test Related Traps

NOTE

BER Test is not supported in the current version

5.6.1 rbSwDownloadStart Trap

Table 45: rbSwDownloadStart Trap Variables

Variable	Description
Trap ID	101
Description	SW download process has started.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	PROC

5.6.2 rbSwDownloadEnd Trap

Table 46: rbSwDownloadEnd Trap Variables

Variable	Description
Trap ID	102
Description	SW download process has been finished.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	PROC

5.6.3 rbSwDownloadError Trap

Table 47: rbSwDownloadError Trap Variables

Variable	Description
Trap ID	103
Description	An error has been detected in the SW download process.
Trap Source	µBST/NPU/AU/SU
Trap Severity	Minor
Trap Category	PROC
Additional Info	100...103, 150..181. See details in the following table.

NOTE

Additional Info 150…181 details reasons for AU/SU SW download failures.

Table 48: rbSwDownloadError Trap Additional Info

No.	Description
100	Unsupported Software version has been detected. This trap is generated by a µBST/NPU when there is no compatibility between versions (µBST/NPU, AU or SU). It is generated by AU and SU when there is no compatibility with corresponding SU or AU versions.
101	The requested SW version is not available at µBST/NPU site. This trap is generated only by µBST/NPU.
102	SW download process failed.
103	No space available in disk. There are already 3 SW versions in µBST/NPU for AU/SU, and another version is being downloaded.
150	Download is aborted by an external event.
151	Header's "HW Version" is not compatible with the real unit's HW
152	Header's "HW Config" is not compatible with the real unit's HW
153	Failure to create a new file on Flash
154	Failure to open file on Flash
155	Failure to get file statistics (size..)
156	Failure to read from file
157	Failure to write to file
158	Failure to write information about SW file to the "Info" file

Table 48: rbSwDownloadError Trap Additional Info

No.	Description
159	Can not Access Flash using File System
160	Old Shadow file is not accessible and can not be removed
161	NPU/μBST File Signature is not recognized
162	File does not contain header
163	File's header is too long
164	Some header's field title or format is not recognized
165	Header's "Unit Type" field does not match current Unit (Trying to Download wrong SW)
166	RF Version should be checked but is not found in header
167	Header's "RF Revision" is not compatible with the real unit's RF
168	CRC calculation failed
169	Calculated CRC does not match CRC in the header
170	Calculated file size does not match file size in the header
171	Failure to start TFTP client
172	Error is received during TFTP
173	Failure to read received data from TFTP data socket
174	TFTP data socket is empty
175	Another TFTP session is already in process
176	File name is not set properly
177	File size exceeds the maximum size that can be downloaded to AU/SU
178	Files with extension other than ".bz" can not be downloaded to AU/SU
179	File exists as Main and can not be removed
180	File is not available
181	Communication timeout

5.6.4 rbSwSwitchFailed Trap

Table 49: rbSwSwitchFailed Trap Variables

Variable	Description
Trap ID	104
Description	Software switch-over failed
Trap Source	µBST/NPU/AU/SU
Trap Severity	Minor
Trap Category	PROC
Additional Info	104, 105. See details in the following table

Table 50: rbSwSwitchFailed Trap Additional Info

No.	Description
104	Run from shadow action
105	Set as Main action

5.6.5 rbSwSwitchSucceed Trap

Table 51: rbSwSwitchSucceed Trap Variables

Variable	Description
Trap ID	105
Description	Software switch-over succeeded
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	PROC
Additional Info	105 (Set as Main action)

5.6.6 rbBERTestFinished Trap

Table 52: rbBERTestFinished Trap Variables

Variable	Description
Trap ID	106
Description	BER Test finished
Trap Source	SU
Trap Severity	Info
Trap Category	PROC

5.6.7 rbBERTestStarted Trap

Table 53: rbBERTestStarted Trap Variables

Variable	Description
Trap ID	107
Description	BER Test has started
Trap Source	SU
Trap Severity	Info
Trap Category	PROC

5.7 Service Related Traps

5.7.1 rbServiceDown Trap

Table 54: rbServiceDown TrapVariables

Variable	Description
Trap ID	111
Description	The Service is down
Trap Source	NPU/µBST
Trap Severity	Major
Trap Category	QoS
Additional Info	rbServiceIdx, rbSubscriberIdx, rbServiceName, rbSubscriberID included as binding parameters.

5.7.2 rbServiceUp Trap

Table 55: rbServiceUp Trap Variables

Variable	Description
Trap ID	112
Description	The service has become operational
Trap Source	NPU/µBST
Trap Severity	Info
Trap Category	QoS
Additional Info	rbServiceIdx, rbSubscriberIdx, rbServiceName, rbSubscriberID included as binding parameters.

5.7.3 rbServiceChanged Trap

Table 56: rbServiceChanged Trap Variables

Variable	Description
Trap ID	113
Description	The Service properties have been modified
Trap Source	NPU/µBST
Trap Severity	Info
Trap Category	QoS
Additional Info	119...122. See details in the following table. In addition, rbServiceIdx, rbSubscriberIdx, rbServiceName, rbSubscriberID included as binding parameters.

Table 57: rbServiceChanged Trap Additional Info

No.	Description
119	Service Admin Status has been changed
120	Service SU MAC Address has been changed
121	Service VLAN List has been changed
122	Service Profile has been changed (implies that another Service Profile has been set)

5.7.4 rbServiceGeneralError Trap

Table 58: rbServiceGeneralError Trap Variables

Variable	Description
Trap ID	114
Description	A Service error has been detected
Trap Source	NPU/µBST
Trap Severity	Minor
Trap Category	QoS
Additional Info	111...118. See details in the following table. In addition, rbServiceIdx, rbSubscriberIdx, rbServiceName, rbSubscriberID included as binding parameters.

Table 59: rbServiceGeneralError Trap Additional Info

No.	Description
111	The maximum allowed number of Subscribers has been reached
112	The maximum allowed number of Service configurations has been reached
113	The maximum allowed number of Service Profile configurations has been reached
114	The maximum allowed number of Forwarding Rules configurations has been reached
115	The maximum allowed number of Policy Rules configurations has been reached
116	The maximum allowed number of QoS Profiles configurations has been reached
117	The maximum allowed number of calls has been reached
118	There is no available bandwidth to allocate to a new VoIP call

5.7.5 rbNetworkingError Trap

Table 60: rbNetworkingError Trap Variables

Variable	Description
Trap ID	115
Description	Networking error has been detected. Services to the SU are denied until the SU is reset from the wireless link side by the NPU/µBST.
Trap Source	SU
Trap Severity	Info
Trap Category	PROC
Additional Info	10: Loop was detected on SU Ethernet port.

5.8 MIB II Traps

5.8.1 coldStart Trap

Table 61: coldStart Trap Variables

Variable	Description
Trap ID	0
Description	The device is rebooting itself and may change its configuration or the SNMP agent's configuration
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	Equipment

5.8.2 warmStart Trap

Table 62: warmStart Trap Variables

Variable	Description
Trap ID	1
Description	The device is rebooting itself but neither the device's nor the SNMP agent's configuration will change
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	Equipment

5.8.3 linkDown Trap

Table 63: linkDown Trap Variables

Variable	Description
Trap ID	2
Description	A communication link failure
Trap Source	µBST/NPU/AU/SU
Trap Severity	Info
Trap Category	Communication
Additional Info	127...131. See details in the following table.

Table 64: linkDown Trap Additional Info

No.	Description
127	The Ethernet connection to the backbone has been found to be down. A μBST/NPU trap.
128	The Management connection has been found to be down. A μBST/NPU trap.
129	The communication to an AU has failed. An AU trap.
130	Radio link has failed completely (loss of communication to all SUs). A μBST/AU trap.
131	Radio link to a specific SU has failed. An SU trap.

5.8.4 linkUp Trap

Table 65: linkUp Trap Variables

Variable	Description
Trap ID	3
Description	A communication link that previously failed has become operational.
Trap Source	μBST/NPU/AU/SU
Trap Severity	Info
Trap Category	Communication
Additional Info	127...131. See details in the following table.

Table 66: linkUp Trap Additional Info

No.	Description
127	The Ethernet connection to the backbone has been found to be active. A μBST/NPU trap.
128	The Management connection has been found to be active. A μBST/NPU trap.
129	The communication to an AU has become active. An AU trap.
130	Radio link has become active (at least one SU is synchronized). A μBST/AU trap.
131	A new SU has become synchronized (not necessarily registered). An SU trap.

5.8.5 authenticationFailure Trap

Table 67: authenticationFailure Trap Variables

Variable	Description
Trap ID	4
Description	An authentication process has failed
Trap Source	μBST/NPU/SU
Trap Severity	Warning
Trap Category	Communication
Additional Info	142...143. See details in the following table.

Table 68: authenticationFailure Trap Additional Info

No.	Description
142	LCI (Monitor port) authentication failure. A μBST/NPU trap.
143	Telnet authentication failure. A μBST/NPU or SU trap.

6 Active Alarms

Active alarms can be viewed in the Alarms Log of NPU/µBST, which includes all the alarms that are currently on.

The alarms are displayed in the format:

ID=<id>,name=<Name>,cat=<Category>,sev=<Severity>,src=<Source>, <Reason String>

Example: ID=21, name=ShelfCardExtractionOn, cat=EQUP, sev=Info, src=PIU#1, PIU CARD EXTR

6.1 DiagnosticsHwFaultOn Alarm

Table 69: DiagnosticsHwFaultOn Alarm Variables

Variable	Description
ID	2
Description	The device/card has detected a hardware fault
Trap Source	µBST/NPU
Trap Severity	Major
Trap Category	Equipment
Reason String	BIT Failed

6.2 MonitorAccessOn Alarm

Table 70: MonitorAccessOn Alarm Variables

Variable	Description
ID	4
Description	The device is accessed via LCI (Monitor port) or Telnet
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	Equipment
Reason String	NPU/µBST LCI ACCESS: LCI (Monitor port) access has been detected. NPU/µBST TELNET ACCESS: Telnet access has been detected.

6.3 ShelfCardExtractionOn Alarm

Table 71: ShelfCardExtractionOn Alarm Variables

Variable	Description
ID	21
Description	The card is being extracted from the chassis
Trap Source	NPU/AU
Trap Severity	Info
Trap Category	Equipment
Reason String	AU CARD EXTR NPU CARD EXTR PIU CARD EXTR PSU CARD EXTR AVU CARD EXTR

6.4 ShelfPeripheralEquipmentFaultOn Alarm

Table 72: ShelfPeripheralEquipmentFaultOn Alarm Variables

Variable	Description
ID	23
Description	A fault has been detected in a peripheral unit or a µBST components
Trap Source	µBST/PIU/PSU/AVU
Trap Severity	Minor
Trap Category	Equipment
Reason String	BST PER FAULT

6.5 ShelfEnvParamFaultOn Alarm

Table 73: ShelfEnvParamFaultOn Alarm Variables

Variable	Description
ID	25
Description	A fault has been detected in a chassis environmental parameter
Trap Source	µBST/NPU
Trap Severity	Info
Trap Category	Equipment
Reason String	BST ENV FAULT

6.6 OduCommErrorOn Alarm

Table 74: OduCommErrorOn Alarm Variables

Variable	Description
ID	63
Description	An error has been detected in the communication with the ODU associated with the specified Channel ID.
alarm Source	µBST/AU
Alarm Severity	Minor
Alarm Category	Communication
Reason String	ODU COMMUNICATION ERROR

6.7 OduBandMissmatchOn Alarm

Table 75: OduBandMissmatchOn Alarm Variables

Variable	Description
ID	65
Description	A mismatch was detected between the Configured Frequency Band and actual band supported by the HW of the ODU associated with the specified Channel ID.
Alarm Source	µBST/AU
Alarm Severity	Major
Alarm Category	Communication
Reason String	AU ODU BAND MISMATCH

6.8 SwDownloadStart Alarm

Table 76: SwDownloadStart Alarm Variables

Variable	Description
ID	101
Description	SW download process has started
Trap Source	µBST/NPU/AU
Trap Severity	Info
Trap Category	PROC
Reason String	SW DNL START

6.9 SwDownloadError Alarm

Table 77: SwDownloadError Alarm Variables

Variable	Description
ID	103
Description	An error has been detected in the SW download process
Trap Source	µBST/NPU/AU
Trap Severity	Minor
Trap Category	PROC
Reason String	SW DNL FAIL

6.10 SwSwitchFailed Alarm

Table 78: SwSwitchFailed Alarm Variables

Variable	Description
ID	104
Description	Software switch-over failed
Trap Source	µBST/NPU/AU
Trap Severity	Minor
Trap Category	PROC
Reason String	SW SWITCH

6.11 LinkDown Alarm

Table 79: LinkDown Alarm Variables

Variable	Description
ID	130
Description	A communication link failure
Trap Source	µBST/NPU/AU
Trap Severity	Info
Trap Category	Communication

Table 79: LinkDown Alarm Variables

Variable	Description
Reason String	NPU/µBST ETH CONN: The Ethernet connection to the backbone has been found to be down. A µBST/NPU alarm. NPU/µBST MNG CONN: The Management connection has been found to be down. A µBST/NPU alarm. NPU AU CONN: The communication to an AU has failed. An AU alarm. AU RLNK LOSS: Radio link has failed completely (loss of communication to all SUs). A µBST/AU alarm.

6.12 AuthenticationFailure Alarm

Table 80: AuthenticationFailure Alarm Variables

Variable	Description
ID	132
Description	An access authentication process has failed
Trap Source	µBST/NPU
Trap Severity	Warning
Trap Category	Communication
Reason String	NPU LCI UNAUTH ACC: LCI (Monitor port) authentication failure. NPU TELNET UNAUTH ACC: Telnet authentication failure.

NOTE

Authentication Alarms remain on until expiration of the timeout.